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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
Group Art Unit 1641

In re Patent Application of

Eric Henderson, et al.

Application No. 10/541,013

Confirmation No.: 9052

Filed: June 28, 2005

Examiner: Unknown

"METHOD AND APPARATUS FOR
MOLECULAR ANALYSIS IN SMALL
SAMPLE VOLUMES"

INFORMATION DISCLOSURE STATEMENT
PURSUANT TO 37 CFR §1.97(b)

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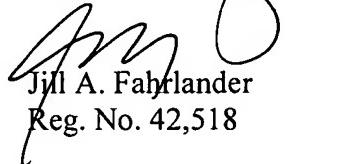
Sir:

The Examiner's attention is directed to the references which are listed on the attached Form PTO/SB/08A and PTO/SB/08B and copies of non-U.S. patent references are attached.

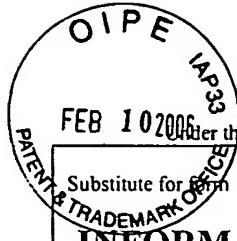
Citation of these references is respectfully requested.

No concession is made that these documents are prior art, and Applicant expressly reserves the right to antedate the documents as may be appropriate.

Respectfully submitted,


Jill A. Fahrlander
Reg. No. 42,518

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Substitute for Form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet

1

of

7

Attorney Docket Number

Complete if Known

Application Number	10/541,013
Filing Date	June 28, 2005
First Named Inventor	Eric Henderson
Group Art Unit	1641
Examiner Name	Unknown

016348-9048-US00

U.S. PATENT DOCUMENTS

Examiner Initials	U.S. Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document
	4,728,591	Clark et al.	3/1/1988
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	5,138,174	Tang	8/11/1992
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U.S. PATENT DOCUMENTS

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		5,532,128	Eggers et al.	7/2/1996
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		JP	7027771	HITACHI LTD.	1/31/1995		
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	WO	03/001633	NORTHWESTERN UNIVERSITY	1/3/2003		

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		WO	03/036767	UNIVERSITY OF ILLINOIS	5/1/2003		
		WO	03/038033 ✓	NORTHWESTERN UNIVERSITY	5/8/2003		
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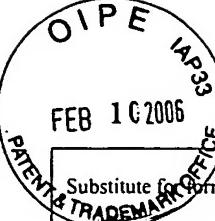
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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published.
		<u>"Microbeam Mass Spectrometry" Chemical Science and Technology Laboratory, Surface and Microanalysis Science Division</u> http://www.cstl.nist.gov/div837/Divisoin/expertise/ions/masspec1.htm 7/18/2002.
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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials	<p>Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published.</p>
	BAILEY, C.P., <i>et al.</i> , Cationic oligonucleotides can mediate specific inhibition of gene expression in Xenopus oocytes" <i>Nuc. Acids Res.</i> , 1998, 26(21):4860-4867.
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		BINNING, <i>et al.</i> , "Surface studies by scanning tunneling microscopy" <i>Phys. Rev. Lett.</i> , 1982, 49(1):57-61.			
		BINNING, G., <i>et al.</i> , "Atomic force microscope" <i>Phys. Rev. Lett.</i> , 1986, 56(9):930-933.			
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		BOTTOMLEY, L., "Scanning probe microscopy" <i>Anal. Chem.</i> , June 1998, 70(12):425R-475R.			
		BRANDOW, S., <i>et al.</i> , "Metal pattern fabrication using the local electric field of conducting atomic force microscope probe" <i>J. Vac. Sci. Technol.</i> , May/June 1997, 15(3):1455-1459.			
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		BRODY, E., and Gold, L., "Aptamers as therapeutic and diagnostic agents" <i>Molecular Biotechnology</i> , 2000, 74:5-13.			
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				Filing Date	June 28, 2005
				First Named Inventor	Eric Henderson
				Group Art Unit	1641
				Examiner Name	Unknown
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		BUSCH, K.L., "Desorption Ionization Mass Spectrometry," <i>J. Mass Spectrometry</i> (1995) 30:233-240			
		BUSTAMANTE C., <i>et al.</i> , "Circular DNA Molecules Imaged in Air by Scanning Force Microscopy" <i>Biochemistry</i> , 1992, 31:22-26			
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		COLLINS, <i>et al.</i> , "Nanotube Device" <i>Science</i> , 3 October 1997, 278:100-103.
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		DING, Y., RUGGERO, M. <i>et al.</i> , "Development of UHV-STM/TOF hybrid mass analyzer system for nano-characterization of metal silicide surfaces" 198th Meeting of the Electrochemical Society, Phoenix, Arizona (2000).			
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		DURBIN, S., FEHER, G., "Protein crystallization" <i>Annual Review of Phys Chemistry</i> . 1996, 47:171-204.			
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		FODOR, S., <i>et al.</i> , "Multiplexed biochemical assays with biological chips" <i>Nature</i> , 1993, 364:555-557.			
		FRISBIE, C.D., <i>et al.</i> , "Functional group imaging by chemical force microscopy" <i>Science</i> , 1994, 265:2071-2074.			
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		GRABAR, <i>et al.</i> , "Preparation and characterization of Au colloid monolayers" <i>Anal. Chem.</i> , 1995, 67(4):735-743.			
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		HINTERDORFER, P. <i>et al.</i> , "Detection and localization of individual antibody-antigen recognition events by atomic force microscopy" <i>PNAS</i> , 1996, 93:3477-3481.			
		HOH, J.H., and HANSMA, P.K., "Atomic force microscopy for high resolution imaging in cell biology" <i>Trends in Cell Biology</i> , 1992, 2:208-213.			

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		HOH, J.H., <i>et al.</i> , "Atomic force microscopy and dissection of gap junctions" <i>Science</i> , 1991, 1405-1408.
		HOH, J.H., <i>et al.</i> , "Quantized adhesion detected with the atomic force microscope" <i>J. Am. Chem. Soc.</i> , 1992, 114:4917-4918.
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		HONG, <i>et al.</i> , "A new tool for studying the in situ growth processes for self-assembled monolayers under ambient conditions" <i>Langmuir</i> , 1999, 15:7879-7900.
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				Application Number	10/541,013
				Filing Date	June 28, 2005
				First Named Inventor	Eric Henderson
				Group Art Unit	1641
				Examiner Name	Unknown
Sheet	12	of	28	Attorney Docket Number	016348-9048-US00

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		HUCK, <i>et al.</i> , "Patterned polymer multilayers as etch resists" <i>Langmuir</i> , 1999, 15:6862-6867.
		IVANISEVIC, <i>et al.</i> , "Dip-Pen Nanolithography on Semiconductor Surfaces" <i>J. Am. Chem. Soc.</i> , 2001, 123:7887-7889.
		IYER, <i>et al.</i> , "The Transcription Program in the Response of Human Fibroblasts to Serum" <i>Science</i> , 1999, 283(5398):83-87.
		JACKMAN, <i>et al.</i> , "Fabrication of submicrometer features on curved substrates by microcontact printing" <i>Science</i> , 1995, 269: 664-666.
		JAMES, <i>et al.</i> , "Patterned protein layers on solid substrates by thin stamp microcontact printing" <i>Langmuir</i> , 1998, 14:741-744.
		JANES, <i>et al.</i> , "Electronic conduction through 2D arrays of nanometer diameter metal clusters" <i>Superlattices and Microstructures</i> , 1995, 18(4):275-282.
		JASCHKE, <i>et al.</i> , "Deposition of organic material by the tip of a scanning force microscope" <i>Langmuir</i> , 1995, 11:1061-1064.
		JIN, X., UNERTL, W., "Submicrometer modification of polymer surfaces with a surface force microscope" <i>Applied Physics Letters</i> , 1992, 61(6): 657-659.
		JONES, V., <i>et al.</i> , "Microminiaturized Immunoassays Using Atomic Force Microscopy and Compositionally Patterned Antigen Arrays 66" <i>Anal. Chem.</i> , 1998, 70(7):1233-1241.

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	KARPOVICH, <i>et al.</i> , "Direct measurement of the adsorption kinetics of alkanethioilate self-assembled monolayers on microcrystalline gold surface" <i>Langmuir</i> , 1994, 10:3315-3322.
	KIM, <i>et al.</i> , "Nanotube nanotweezers" <i>Science</i> , 10 December 1999, 286:2148-2150.
	KNEZEVIC <i>et al.</i> , "Proteomic profiling of the cancer microenvironment by antibody arrays" <i>Proteomics</i> , 2001, 1:1271-1278.
	KOCHANEK, <i>et al.</i> , "Transcriptional silencing of human ALU sequences and inhibition of protein binding in the box B regulatory elements by 5'CG3" methylation" <i>FEBS Lett.</i> , 1995, 360(2):115-120 [PMID 7875314] Abstract.
	KOMEDA, <i>et al.</i> , "Octadecyltrichlorosilane self-assembled-monolayer islands as a self-patterned-mask for HF etching of SiO ₂ on Si" <i>J. Vac. Sci. Technol A.</i> , 1998, 16(3):1680-1685.
	KONG, <i>et al.</i> , "Nanotube Molecular Wires as Chemical Sensors" <i>Science</i> , 28 January 2000, 287:622-625.
	KUMAR, <i>et al.</i> , "The use of self-assembled monolayers and a selective etch to generate patterned gold features" <i>J. Am. Chem. Soc.</i> , 1992, 114:9188-9189.
	LAHIRI, <i>et al.</i> , "Patterning ligands on reactive SAMs by microcontact printing" <i>Langmuir</i> , 1999, 15:2055-2060.
	LAIBINIS <i>et al.</i> , "a-terminated alkanethiolate monolayers on surfaces of copper, silver, and gold have similar wettabilities ¹ " <i>J. Am. Chem. Soc.</i> , 1992, 114: 1990-1995.

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		LAL, R. and JOHN, S.A., "Biological applications of atomic force microscopy" <i>Am J. Physiology</i> , 1994, 266(1):1-21.			
		LANIO, T., <i>et al.</i> , "PCR-based random mutagenesis method using spiked oligonucleotides to randomize selected parts of gene without any wild-type background" <i>Biotechniques</i> , 1998, 25(6):958-965.			
		LEE, <i>et al.</i> , "Nanometer-scale lithography on H-passivated Si(100) by atomic force microscope in air" <i>J. Vac. Sci. Technol. A.</i> , 1997, 15(3):1451-1454.			
		LEE, G. <i>et al.</i> "Direct measurement of the forces between complementary strands of DNA" <i>Science</i> , 1994, 266:771-773,			
		LERCEL, <i>et al.</i> "Self-assembled monolayer electron-beam resists on GaAs and SiO ₂ " <i>J. Vac. Sci. Technol. B.</i> , 1993, 11(6): 2823-2828.			
		LERCEL, <i>et al.</i> , "Sub-10nm lithography with self-assembled monolayers" <i>Appl. Phys. Lett.</i> , 1996, 68(11):1504-1506.			
		LI, Y. <i>et al.</i> , "Electrochemical AFM "Dip-Pen" Nanolithography" <i>J. Am. Chem. Soc.</i> 2001, 123:2105-2106.			
		LIU, <i>et al.</i> , "Nanofabrication of self-assembled monolayers using scanning probe lithography" <i>Acc. Chem. Res.</i> , 2000, 33(7):457-466.			
		LO, <i>et al.</i> , "Organic and inorganic contamination on commercial AFM cantilevers" <i>Langmuir</i> , 1999, 15:6522-6526.			

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		LÜTHI, <i>et al.</i> , "Parallel nanodevice fabrication using a combination of shadow mask and scanning probe methods: <i>Applied Physics Letters</i> , 1999, 75(9):1314-1316.			
		LUTWYCHE, <i>et al.</i> , "5X5 2D AFM cantilever arrays a first step toward Terabit storage device" <i>Sensors and Actuators</i> , 1999, 73:89-94.			
		LYNCH, M., <i>et al.</i> , "A Reliable Preparation Method for Imaging DNA by AFM" <i>Microscopy Today</i> , 1999, 99(9) 1 pg.			
		LYUBCHENKO, Y.L., <i>et al.</i> , "Atomic force microscopy of DNA and bacteriophage in air, water and propanol: The role of adhesion forces" <i>Nuc. Acids Res.</i> , 1993, 21(5):1117-1123.			
		MACAYA, <i>et al.</i> , "Thrombin-binding DNA aptamer forms a unimolecular quadruplex structure in solution" <i>PNAS USA</i> , April 1993, 90:3745-3749.			
		MacBEATH, G. and SCHREIBER, S.L., "Printing Proteins as Microarrays for High-Throughput Function Determination" <i>Science</i> , 8 September 2000, 289:1760-1763.			
		MAGNO, R., BENNETT, B., "Nanostructure patterns written in III-V semiconductors by an atomic force microscope" <i>Applied Physics Letters</i> , 1997, 70(14):1855-1857.			
		MALMBORG, <i>et al.</i> , "Real Time Analysis of Antibody-Antigen Reaction Kinetics", <i>Scand. J. Immunol.</i> , 1992, 35:634-650.			
		MARSH, T.C., <i>et al.</i> , "A new DNA nanosstructure imaged by scanning probe microscopy" <i>Nuc. Acids Res.</i> 1995, 23(4):696-700.			

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		MARSH, T.C., <i>et al.</i> , "G-wires: Self-assembly of a telomeric oligonucleotide, d(GGGGTTGGGG), into large superstructures" <i>Biochemistry</i> 1994, 33:10718-10724.			
		MARTIN, B., <i>et al.</i> , "Orthogonal Self-Assembly on Colloidal Gold-Platinum Nanorods" <i>Advanced Materials</i> , 1999, 11:1021.			
		MATTEUCCI, <i>et al.</i> , "Synthesis of deoxyoligonucleotides on a polymer support 1" <i>J. Am. Chem. Soc.</i> , 1981, 103:3185-3191.			
		MAYNOR, <i>et al.</i> , "Au :Ink" for AFM "Dip-Pen" Nanolithography" <i>Langmuir</i> , 2001, 17:2575-2579.			
		MAZZOLA, L., "Discrimination of DNA hybridization using chemical force microscopy" <i>Biophysical Journal</i> , 1999, 76:2922-2933.			
		MAZZOLA, L., "Imaging biomolecule arrays by atomic force microscopy" <i>Biophysical Journal</i> , 1995, 68:1653-1660.			
		MEISTER, <i>et al.</i> , "Nanoscale Dispensing of Liquids through Cantilevered Probes" <i>MNE '02</i> , Lugano, Switzerland, 16-19 September 2002.			
		MENDOZA, <i>et al.</i> , "High-Throughput Microarray-Based Enzyme-Linked Immunosorbent Assay (ELISA)" <i>BioTechniques</i> , 1994, 27(4):778-788.			
		MEYER, G. and N.M. AMER, "Novel optical approach to atomic force microscopy" <i>Appl. Phys. Lett.</i> , 1988, 53:1045-1047.			

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		MINNE, <i>et al.</i> , "Centimeter scale atomic force microscope imaging and lithography" <i>Applied Physics Letters</i> , 1998, 73(12):1742-1744.			
		MINNE, S.C., <i>et al.</i> , "Automated parallel high-speed atomic force microscopy" <i>Appl. Phys. Lett.</i> , 1998, 72(18):2340-2342.			
		MIRKIN, <i>et al.</i> , "Dip-Pen Nanolithography: Controlling Surface Architecture on the Sub-100 Nanometer Length Scale" <i>Chemphyschem</i> , 2001, 2:37-39.			
		MIRKIN, <i>et al.</i> , "Programming the Assembly of Two- and Three-Dimensional Architectures with DNA and Nanoscale Inorganic Building Blocks" Invited Contribution from Recipient of ACS Award in Pure Chemistry" <i>Inorg. Chem.</i> , 2000, 39:2258-2272.			
		MOSHER, C., <i>et al.</i> , "NanoArrays, The Next Generation Molecular Array Format for High Throughput Proteomics, Diagnostics and Drug Recovery" <i>JALA</i> , 2000, 5(5):75-83.			
		MOY, <i>et al.</i> , "Intermolecular Forces and Energies Between Ligands and Receptors" <i>Science</i> , 1994, 266:257-259.			
		MOY, V.T., <i>et al.</i> , "Probing the forces between complimentary strands of DNA with the atomic force microscope" <i>SPIE</i> , 1995, 2384:2-12.			
		MUELLER, <i>et al.</i> , "Atomic force microscopy deposition of poly-l-lysine structures onto lipid bilayers supported by mica" <i>Langmuir</i> , 2000, 16:9568-9570.			
		MÜLLER, <i>et al.</i> , "Nanostructuring of alkanethiols with ultrastrap field emitters" <i>J. Vac. Sci. Technol. B.</i> , 1995, 13(6):2846-2849.			

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	MURRAY, <i>et al.</i> , "Atomic force microscopy of biochemically tagged DNA" <i>Proc., Natl. Acad. Sci.</i> , 1993, 90:3811-3814.
	MUSIL, C., "Nanostructuring of gold electrodes for immunosensing applications: <i>J. Vac. Sci. Technol. B.</i> , 1995, 13(6):2781-2786.
	NIU, <i>et al.</i> , "Atomic force microscopy of DNA-colloidal gold and DNA-protein complexes" <i>SPIE Advances in DNA Sequencing Technology</i> , 1993, 1891:71-77.
	NOY, <i>et al.</i> , "Chemical force microscopy: exploiting chemically-modified tips to quantify adhesion, friction, and functional group distributions in molecular assemblies" <i>J. Am. Chem.</i> , 1995, 117:7943-7951.
	NOY, <i>et al.</i> , "Chemically-sensitive imaging in tapping mode by chemical force microscopy: relationship between phase lag adhesion" <i>Langmuir</i> , 1998, 14:1508-1511.
	NUZZO, R., "Spontaneously organized molecular assemblies. 3. Preparation and properties of solution adsorbed monolayers of organic disulfides on gold surfaces" <i>J. Am. Chem. Soc.</i> , 1987, 109:2358-2368.
	NYFFENEGGER, <i>et al.</i> , "Nanometer scale surface modification using the scanning probe microscope: progress since 1991" <i>Chem. Rev.</i> , 1997, 97:1195-1230.
	O'BRIEN, J., <i>et al.</i> , "Immunosensing Platforms Using Spontaneously Absorbed Antibody Fragments on Gold" <i>Analytical Chemistry</i> , 2000, 72(4)703-710 [PMID 10701253] Abstract.
	OSHIO, T. <i>et al.</i> , "Atomic force microscopy detection system using an optical fiber heterodyne interferometer free from external disturbances" <i>Ultramicroscopy</i> 42-44 (July 1992) 310-314.

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	PAWELETZ, <i>et al.</i> , "Reverse phase protein microarrays which capture disease progression show activation of pro-survival pathways at the cancer invasion front" <i>Oncogen</i> , 2001, 20:1981-1989.
	PAWLAK, <i>et al.</i> , "Zeptosens' protein microarrays: A novel high performance microarray platform for low abundance protein analysis" <i>Proteomics</i> , 2002, 2:383-393.
	PERKINS, <i>et al.</i> , "Fabrication of 15 nm wide trenches in Si by vacuum scanning tunneling microscope lithography of an organosilane self-assembled film and reactive ion etching" <i>Appl. Phys. Lett.</i> , 1996, 68(4):550-552.
	PFANNSCHMIDT, <i>et al.</i> , "Sequence-specific labeling of superhelical DNA by triple helix formation and psoralen crosslinking" <i>Nucleic Acids Research</i> , 1996 24(9):1702-1709.
	PINER, <i>et al.</i> , "Improved imaging of soft materials with modified AFM tips" <i>Langmuir</i> , 1999, 15:5457-5460.
	PINER, R.D., <i>et al.</i> , "Dip-Pen Nanolithography" <i>Science</i> , January 29, 1999, 283(5402):661-663.
	PINER, Richard, "Effect of water on lateral force microscopy in air" <i>Langmuir</i> , 1997, 13:6864-6868.
	PUTNAM, C.A.J., "Tapping atomic force microscopy in liquids" <i>Appl. Phys. Lett.</i> , 1994, 64(18):2454-2456.
	QIN, <i>et al.</i> , "Fabrication of ordered two-dimensional arrays of micro- and nanoparticles using patterned self-assembled monolayers as templates: <i>Adv. Matter</i> , 1999, 11(17):1433-1437.

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				First Named Inventor	Eric Henderson
				Group Art Unit	1641
				Examiner Name	Unknown
Sheet	21	of	28	Attorney Docket Number	016348-9048-US00

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		SCHENA, <i>et al.</i> , "Parallel human genome analysis : Microarray-based expression monitoring of 1000 genes" <i>PNAS USA</i> , 1996, 93:10614-10619.
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		YAN, <i>et al.</i> "Patterning a performed, reactive SAM using microcontact printing" <i>J. Am. Chem. Soc.</i> , 1998, 120:6179-6180.
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